

Patent Claims

1. A heat exchanger, especially a stacked plate oil cooler (1), having a plate-type design, with two adjacent heat exchanger plates (2) defining an interspace through which a heat exchanger medium or a second medium to be cooled or to be heated flows, and at one end a base plate (3) being provided which is in at least substantially flat contact with the adjacent outermost heat exchanger plate (2) of the heat exchanger, characterized in that the base plate (3) has a depression (5) with a contour running in accordance with the heat exchanger plate (2).
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2. The heat exchanger as claimed in claim 1, characterized in that the flanks of the outermost heat exchanger plate bear, at least in their lower region, against the flanks of the contour of the base plate (3), which contour runs in a recessed manner.
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3. The heat exchanger as claimed in claim 1 or 2, characterized in that one edge of the outermost heat exchanger plate (2) protrudes over the base plate (3).
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4. The heat exchanger as claimed in one of the preceding claims, characterized in that the depression (5) in the base plate (3) is greater than the material thickness of the heat exchanger plate (2) of the heat exchanger.
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5. The heat exchanger as claimed in one of the preceding claims, characterized in that the depression (5) in the base plate (3) is at least as deep as the material thickness of the heat
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exchanger plate (2) of the heat exchanger plus half of the clear height between the outermost heat exchanger plate (2), which bears against the base plate (3), and the second outermost heat exchanger plate (2).

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6. The heat exchanger as claimed in one of the preceding claims, characterized in that the depression (5) in the base plate (3) is at least as deep as the material thickness of the heat exchanger plate (2) of the heat exchanger plus the clear height between the outermost heat exchanger plate (2), which bears against the base plate (3), and the second outermost heat exchanger plate (2).

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7. The heat exchanger as claimed in one of the preceding claims, characterized in that the contour in the base plate is produced by means of embossing, casting or machining.

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8. The heat exchanger as claimed in one of the preceding claims, characterized in that the base plate (3) has at least one supply opening for one of the media.

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9. The use of a heat exchanger as claimed in one of claims 1 to 8 as a charge-air/coolant cooler, exhaust gas cooler, evaporator or oil cooler (1).